

WAVELENGTH LOCKER WITH CONFOCAL CAVITY

Abstract of Disclosure

A wavelength locker having a first beam splitter to receive a light beam and separate out a portion as a sample beam; a confocal etalon to receive the sample beam and filter it into a filterization beam; a filterization photodetector to receive the filterization beam and produce a filterization signal representative of the light intensity in the filterization beam, and thus also of the light frequency in the filterization beam, sample beam, and original light beam; and a link to communicate a control signal, based on the filterization signal, to the light source producing the light beam to lock the wavelength or the frequency.

Figures